CDF Operations Report

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15-Jan-2004

CDF Weekly Meeting

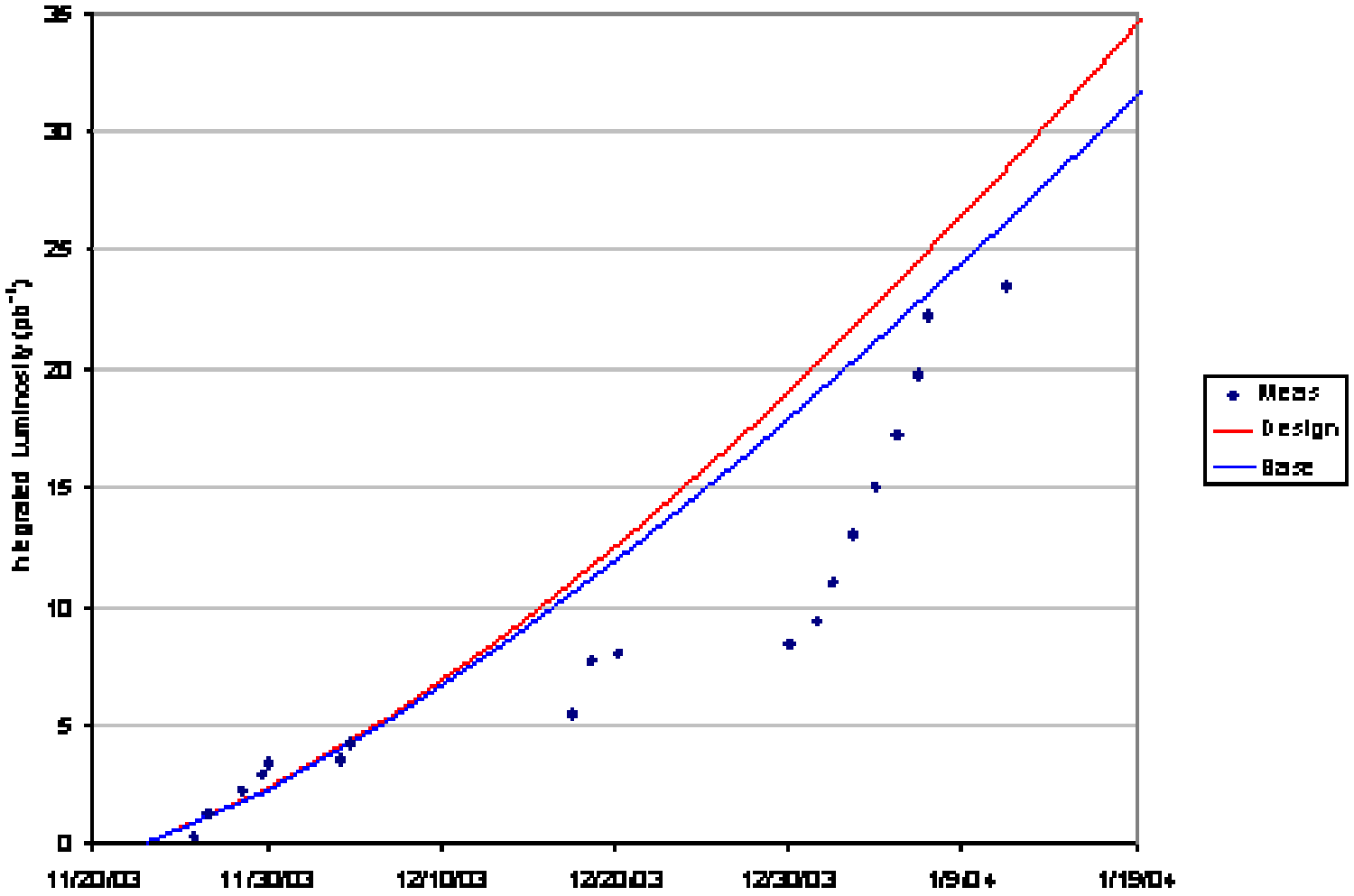
STORE SUMMARY

Store	Start Date	Duration (hours)	Inst Lum Initial e30 cm-2 s-1	Int. Lum Delivered nb-1	Live Lum nb-1	Good nb-1	Silicon nb-1
3132	1/08 01:57	30.2	50.6	2,568	1,912 74.5%	1,852 72.1%	1,774 69.1%
3135	1/09	Quench at flattop, beam instabilities					
3140	1/10	Quench on ramp, beam instabilities					
3148	1/11 11:35	20.7	36.5	1,273	1,028 80.7%	821 64.5%	821 64.5%
3151	1/12	Quench at flattop, wrong separator polarity					
3157	1/13 19:15	10.5	17.2	492	404 82.0%	197 39.9%	197 39.9%
3159	1/14	Quench on ramp, Tev goes into study period					
Total		61.4	34.8	4,334	3,344 77.2%	2,870 66.2%	2,792 64.4%

Accelerator Issues

- **Good news: Stores reported "Masa's week" show for a sliding 7 day period - 5 stores 1/02 – 1/09 delivered 11 pb-1 (FY04 design goal for May) This week's design goal is 7 pb-1.**
- **Not good news: 4 of last 6 shots have failed. Accelerator Division spent much of last day doing studies – "modest" shot underday.**
- **pbar Lithium Collection Lens has been replaced twice (spare situation "iffy" but not a crisis)**

Dave McGuinnes – Will the Cubs ever reach the world series?



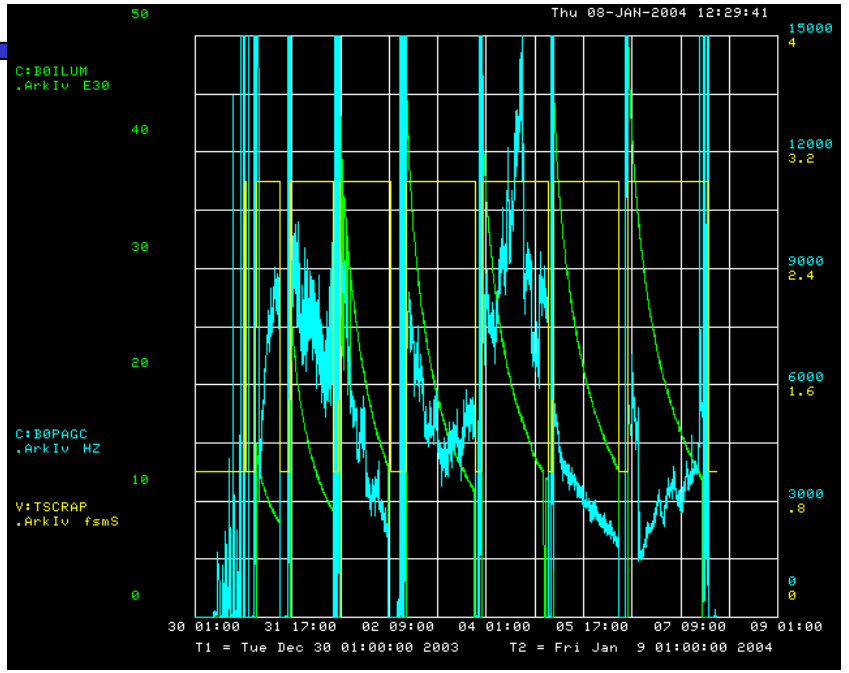
CDF ISSUES

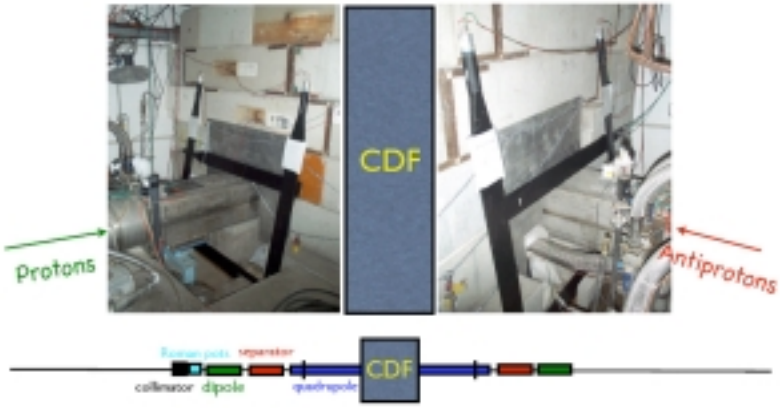
- Basically in good shape…!
- COT flow rate increased – test to see if aging is reduced. (I'm kissing my raise goodbye.)
- SVX readout 'resonance detected' fatal error – SRC hangs and cannot be recovered w/o expert intervention. Problem will continue to be investigated when beam returns. (frequency – 3 times in one week)
- "Proton abort gap limits" for including Silicon in data taking have been readjusted since counters moved during shutdown. There are some low level concerns that Tevatron abort gap behaviour changed during shutdown.
- High deadtimes back in days we had collisions.
  - L3 now has new nodes (~35% increase).
  - COT curvature cut in L3 increased .
  - Trigger table changes being tested plus backup High Lum table that drops SVT triggers.
  - Waiting for another hot store to find out where we stand.

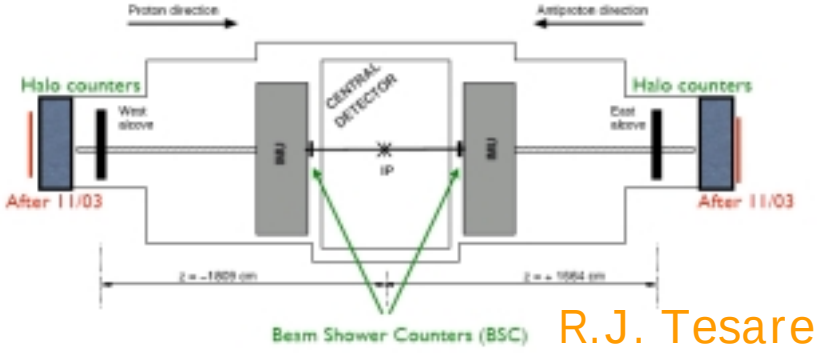
Recent Beam Quality Issues from Silicon (Rainer's slide)

'High' Abort Gap Losses in recent stores:

- Measured by scintillator counters which are gated to measure proton losses in-time and losses from the abort gap.
- Issue is complicated by the fact that the counters moved during the shutdown







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